

# Charting a Course to Energy Independence

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# Sustainability and Green Purchasing

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# Scope

- Biobased Construction Products
- Environmentally Preferable Construction Products
- Recycled Content Construction Products





# Requirements

- Executive Order
- Guiding Principles
- Federal Acquisition Regulations (FAR)



# Executive Order 13423

## Strengthening Federal Environmental, Energy, and Transportation Management

“The head of each agency shall require in-agency acquisitions of goods and services, use of sustainable environmental practices, including acquisition of biobased, environmentally preferable, energy efficient, water efficient, and recycled content products.”





# Guiding Principles

## High Performance and Sustainable Buildings Memorandum of Understanding

1. Use integrated design and commissioning
2. Optimize energy efficiency using measurement and verification.
3. Protect and conserve water
4. Enhance indoor environmental quality
5. Reduce the environmental impact of materials



# Federal Acquisition Regulation

## FAR 23.403 - Policy

“Agencies shall assure the use of products to the maximum extent practicable without jeopardizing the intended use of the product while maintaining a satisfactory level of competition at a reasonable price.”





# Federal Acquisition Regulation

## FAR 23.703 - Policy

“Agencies must implement cost-effective contracting preference programs promoting energy efficiency, water conservation, and the acquisition of environmentally preferable products and services.”





# Federal Acquisition Regulation Clauses

52.223-17 Affirmative Procurement of  
EPA-Designated Items in Service and  
Construction Contracts

52.223-2 Affirmative Procurement of  
Biobased Products Under Service and  
Construction Contracts



# Biobased Construction Products

## Legal Basis:

Food Conservation and Energy Act of 2008  
(Farm Bill), Section 9002 Farm Security and  
Rural Investment Act of 2002, Section 9002

## What's Required:

Purchase USDA-designated biobased products



# Biobased Construction Products

## You MUST Buy:

- Water Tank Coatings
- Diesel Fuel Additives
- Hydraulic Fluids
- Roof Coatings
- Carpets
- Plastic Insulation Foam
- Composite Panels
- Wood and Concrete Sealers



Web site: <http://www.biopREFERRED.gov>



# Environmentally Preferable Construction Products

Basis:

E.O. 13423

What's Required:

Purchase environmentally preferable  
products and services





# Environmentally Preferable Construction Products

- Low Or No VOC Paints
- Carpet with No Adhesive or Low VOC Emitting Adhesive

Web site: <http://www.epa.gov/oppt/epp>



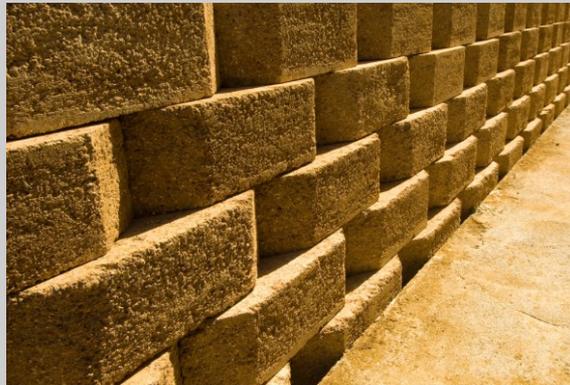
# Recycled Content Construction Products

Legal Basis:

Resource Conservation and Recovery Act,  
Section 6002

What's Required:

Purchase EPA-designated recycled content  
products





# Recycled Content Construction Products

## You **MUST** Buy:

- Building Insulation
- Carpet (polyester)
- Carpet cushion
- Cement and concrete containing:
  - Coal fly ash
  - Ground granulated blast furnace slag
  - Cenospheres
  - Silica Fume
- Consolidated and reprocessed latex paint
- Floor tiles
- Flowable fill
- Laminated paperboard

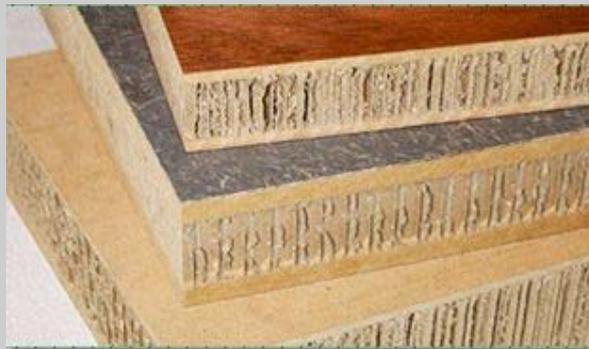


# Recycled Content Construction Products

## You MUST Buy:

- Modular threshold ramps
- Nonpressure pipe
- Patio blocks
- Railroad grade crossing surfaces
- Roofing Materials
- Shower and restroom dividers/partitions
- Structural fiberboard

Web site: <http://www.epa.gov/cpg>





# Agency Uses/Success Stories

## US Army - Fort Hood

- Has implemented biobased construction materials
- Constructed 2 warehousing facilities with Agriboard
- Reduced construction waste
- Accomplished 75% reduction in construction times and labor labor costs
- Proven to be wind and sound resistant





# Agency Uses/Success Stories

## US Army - Fort Hood Straw Bale Project

- Designing and constructing world's largest straw bale facility
- Addressing a 5 million square foot deficit in administrative facilities
- Eliminating World War II wood
- Using biobased construction products





# Agency Uses/Success Stories

## EPA Regional Headquarters

- EPA Region 8 Building, Denver Colorado
- Recycled industrial products throughout the structure
- LEED Gold
- Roof





# Agency Uses/Success Stories

## EPA Potomac Yards Building

- EPA Buildings at One and Two Potomac Yards, Arlington, VA
- Maximizes use of recyclable materials
- LEED Gold
- Contains on average 27% recycled content
- Fly ash, certified hardwood and softwood building products, ceiling panels, gypsum wallboard
- 2007 White House Closing the Circle Award





# Compliance

- FedBizOpps Data - Not Being Done on Construction Contracts Government-wide
- Impact on Future OMB Score Card
- This Guiding Principle Not Being Accomplished



# You Can Do It/Resources

- Contract Templates: Construction, Operations and Maintenance
- Model Language and Facilities Design Standards
- Free Web Based Training
- New Life Cycle Checklist Tool



# For Further Information on Sustainability and Green Purchasing

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